

## Special Issue

# Advanced Research in Nanophotonics and Biophotonics

### Message from the Guest Editor

This Special Issue will focus on the recent advancements in nanophotonics and biophotonics and their different applications, including biological and biomedical research applications. We plan to cover various optical/photronics techniques, such as spectroscopy, microscopy, Raman, and FTIR, probing abnormalities in cells and tissues, ranging from cancer to brain diseases. Additionally, we are interested in topics in nanophotonics, including plasmonics, nearfield optical microscopy, nano-lasers, nano-biophotonics, etc., and their applications to molecular biological/molecular biomedical research. In this Special Issue, we invite researchers to submit original research articles on optical/photronics techniques, nanophotonics, and nanophotonics, or reviews on the last developments in these fields. IJMS is a molecular journal and we hope that your paper contains as much molecular content as possible.

---

### Guest Editor

Dr. Prabhakar Pradhan

Department of Physics and Astronomy, Mississippi State University,  
Starkville, MS 39762, USA

---

### Deadline for manuscript submissions

20 November 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/222453](https://mdpi.com/si/222453)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

---

### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore  
- Q1 (Organic Chemistry)